File: 05L

CDP #C-336

11 March 1980

MEMORANDUM FOR: Deputy Director of Data Processing

THROUGH: NFAC ADP Control Officer

SUBJECT: Procurement of Tektronix Interactive
                  Buffer

Ordered 6/13

STATINTL

     1.   The Office of Research and Development gave
demonstrations to me and analysts in my office of the
TACK interactive graphics system developed for ORD by
███████ I was impressed by the potential applications
of TACK to our problems of data presentation.   In order
to use the TACK system on our TEKTRONIX display terminals,
an Interactive Buffer (see attachment) is required.   I
request acquisition of one Interactive Buffer for the
TEKTRONIX terminal model 4015-1 located in OSR/SE/F,
Room 2G40.

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     2.   Coordination of the administrative matters
related to acquiring and installing the Interactive
Buffer will be handled by ██████████████████████
████

R. M. HUFFSTUTLER
Director
Strategic Research

Attachment
  As stated

SUBJECT: Procurement of Textronix Interactive Buffer

Distribution:
    Addressee & 1
1- NFAC ADP Control Officer
1- C/SEC
1- C/SE/F
1- D/OSR   STATINTL
OSR/SE/F: ███████████████ (7Mar80)

A Big-Screen Storage Terminal that provides local Interactivity—the Tektronix 4014 or 4015 with Interactive Buffer
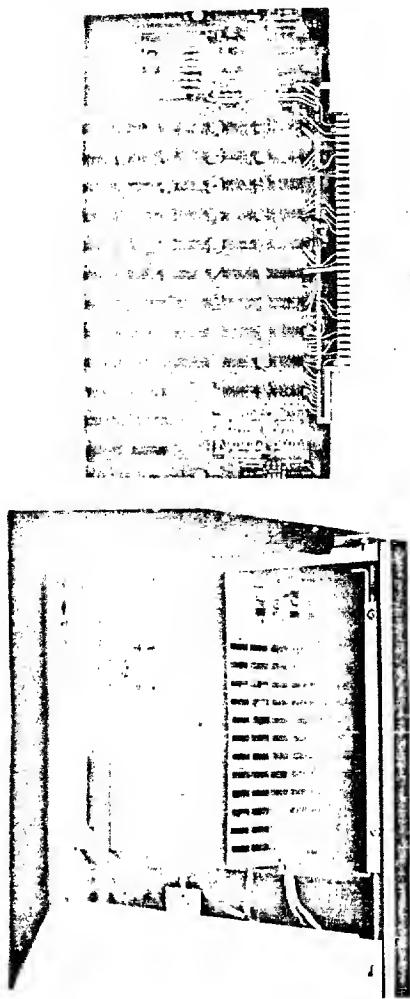
Interactive Buffer

Addition of the Interactive Buffer to Tektronix 4014 or 4015 Graphic Computer Terminals produces a combination of big-screen Storage graphics and additional features previously found only in Refresh terminals. The Interactive Buffer provides 1023 bytes of off-screen storage which can be used as a straight buffer capable of storing or refreshing alphanumeric or graphic displays, as a text editor, or in conjunction with thumbwheels or an optional joystick, to provide moveable picture elements.

Buffer Mode Speeds I/O Operation. In situations where a great many I/O commands tend to slow down operations, the normal Buffer operation is a special advantage, since the computer can dump the I/O strings in the Buffer (and display them on screen) much faster than they could be sent to the Terminal one character at a time. During Buffer operation the terminal keyboard is locked. The terminal is suppressed, and characters received from the computer or a connected peripheral are stored in sequential Buffer locations, starting at location zero. The contents of the Buffer can then be displayed on the Terminal screen on either a stored or a non-stored, write-thru mode.

Text Editing Added to Storage Terminals. The Interactive Buffer adds text editing capability to Tektronix storage terminals. In Compose Mode, previously entered or keyboard characters are displayed on the Terminal screen normally beginning at $X = 0$, $Y = 33$, but not sent directly to the computer. The alphanumeric characters can be deleted one at a time from last character position using backspace and new ones written in, or the entire Buffer contents can be erased

and re-written. Once the text is correct to the operator's satisfaction, a carriage return causes the Terminal keyboard to be locked and the contents of the Buffer sent to the computer.

Relocation Graphics Give Terminals new Power and Versatility. Relocation Mode with the Interactive Buffer increases the graphics power of the Tektronix 4014 or 4015. When Relocation Mode is activated via keyboard rocker switch, Graphic information in the form of a simple pictorial display, or a small part of a larger one is entered in the buffer. It can then be displayed on screen in a non-storing mode and moved to various screen locations by the use of the thumbwheel cursor, or optional 4952 Joystick. Approximately 160 alphanumeric characters or 480 centimeters of graphics can be displayed without flicker. The repositioned display can then be stored and the reference coordinates sent to the computer using the crosshair cursor. Relocation Mode provides a means of editing or composing graphic information without erasing the display and starting over.

Additional Modes for other Terminal Functions. HOLD Mode is entered any time a Hard Copy is commanded. It amounts to a temporary suspension of the non-storing, write-thru Mode during Hard Copy operation or some other special function. STORE Mode locks the Terminal keyboard, and causes the Buffer contents to be sent once to the Terminal screen and stored. NEUTRAL Mode permits

...ventional terminal operation as ...ough the Buffer were...

Simple Operation, Added Terminal Power provided by the Interactive Buffer.

The Interactive Buffer adds ...ficantly to the manipulative ...wer of the Tektronix 4014 or 4015 Computer Display Terminals, both ...graphic and alphanumeric opera-...ons. And yet, its functions are com-...anded simply and easily from the ...mputer, the Terminal keyboard, or a connected peripheral device.

Order Information.

For complete information about ...dering and installing the Interac-...ve Buffer in your 4014 or 4015 Ter-...inal, contact your local Tektronix Sales Engineer today.

Specifications

Storage capacity: 1023 characters

Dump rates:

  To computer: set by system baud rate

  To screen: set by display mode, alpha store—1000 char/sec, alpha write-thru— 4000 char/sec, vectors—approx. 12,000 cm/sec

Refresh rate:

  25 times/sec (unless buffer contents take 40 msec to display)

Relocation:

  full screen for elements originally located at center screen.

Tektronix, Inc.
Information Display Group
P.O. Box 500,
Beaverton, OR 97077
Telephone: (503) 638-3411
TWX: 910-467-8708
Cable: TEKTRONIX

Tektronix Datatek N.V.
P.O. Box 159
Badhoevedorp, The Netherlands
Telephone: 02968-6051
Telex: 16565
Cable: DATATEK Holland

Sony/Tektronix Corporation
9-31 Kitashinagawa-5
Shinagawa-Ku
Tokyo 141 Japan
Telephone 445-0221
  (Area 03/Tokyo)
Telex: 02422850
Cable: SONYTEK Tokyo

Tektronix Australia Pty. Limited
Sydney
80 Waterloo Road
North Ryde, N.S.W. 2113
Telephone: 888-7066
Telex: AA 24269
Cable: TEKTRONIX Australia

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900 Selkirk Street
Pointe Clair, Quebec H9R3S3
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Telex: 05-821570
Cable: TEKANADA

Tektronix®
COMMITTED TO EXCELLENCE

CPYRGHT

TRANSMITTAL SLIP DATE

TO: Deputy Director of Data Proc.

ROOM NO. 2D0105

BUILDING Hqs

REMARKS:

[illegible]

[illegible]/31

DD – How much?

who pays?

meetings?

~ 15-- and

[illegible]

STATINTL

[redacted]

FROM: C/SEC

ROOM NO. 2G40

BUILDING Hqs

[redacted]

STATINTL

FORM NO. 241
1 FEB 55

REPLACES FORM 36-8
WHICH MAY BE USED.

(47)

ROUTING AND TRANSMITTAL SLIP   Date

TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. D/OSR 3G00 Hqs	ℛⱢᵘᵏ	
2.		
3. NFAC ADP Control Officer Rm 2F28 Hqs	DB	3/17/80
4.		
5. Deputy Director of Data Processing Rm 2D0105	95	3/19/80

Action		File		Note and Return	
Approval		For Clearance		Per Conversation	
As Requested		For Correction		Prepare Reply	
Circulate		For Your Information		See Me	
Comment		Investigate		Signature	
Coordination		Justify			

REMARKS

TO (E):

Please handle loose as a
tight-item for DD/P to
respond to. Give Bruce & me
a read copy.

FROM: (Name, org. symbol, Agency/P...   ...Bldg.

2G40

C/SEC

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